Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (currently amended): An optical polarized light source device comprising:

at least one carbon nanotube bundle; and

electrodes ~~connected with~~ electrically connected with ~~the carbon nanotube bundle~~ the at least one carbon nanotube bundle so as to resistance heat the at least one carbon nanotube bundle for making a polarized light beam emit therefrom.

Claim 2 (original): The optical polarized light source device in accordance with claim 1, wherein a length of the at least one carbon nanotube bundle is approximately 600 microns.

Claim 3 (currently amended): The optical polarized light source device in accordance with claim 1, wherein each of the electrodes comprises at least one gold wire ~~which is bonded to inside of a corresponding end of the at least one carbon nanotube bundle~~ connected with the at least one carbon nanotube bundle for establishing an electrical connection therebetween.

Claim 4 (original): The optical polarized light source device in accordance with claim 1, wherein the at least one carbon nanotube bundle comprises a plurality of carbon nanotubes that are substantially parallel to one another.

Claim 5 (original): The optical polarized light source device in accordance with claim 1, wherein the electrodes are made of gold material.

Claim 6 (currently amended): An optical polarized light source device comprising:

a carbon nanotube; and

electrodes electrically connected with the carbon nanotube so as to resistance heat the carbon nanotube for making a polarized light beam emit therefrom.

Claim 7 (currently amended): A method of fabricating an optical polarized light source device, the method comprising the steps of:

(1) depositing a catalyst on a substrate, and patterning the catalyst such that one or more patterned catalyst regions are produced;

(2) exposing the catalyst to a carbon containing gas at a predetermined temperature such that one or more bundles of substantially parallel carbon nanotubes grow from the patterned catalyst regions in a ~~direct~~ direction substantially perpendicular to the substrate;

(3) taking at least one bundle from the substrate; and

(4) connecting the at least one bundle to electrodes.

Claim 8 (original): The method in accordance with claim 7, wherein the catalyst is selected from the group consisting of iron, cobalt and nickel.

Claim 9 (original): The method in accordance with claim 7, wherein step (1) comprises patterning a catalyst film of approximately 5nm thickness on the substrate by e-beam evaporation through a shadow mask.

Claim 10 (original): The method in accordance with claim 7, further comprising the step of annealing the substrate with the catalyst at a temperature in the range from 300 to 500 degrees Centigrade.

Claim 11 (original): The method in accordance with claim 7, wherein the predetermined temperature of step (2) is approximately 700 degrees Centigrade.

Claim 12 (original): The method in accordance with claim 7, further comprising the step of exposing the catalyst to flowing protecting gas before exposing the catalyst to the carbon containing gas.

Claim 13 (original): The method in accordance with claim 7, wherein step (4) comprises the step of pressing at least one gold wire inside each end of the bundle, and then bonding the gold wires to the electrodes.

Claim 14 (original): The method in accordance with claim 7, wherein the protecting gas is selected from the group consisting of nitrogen, helium and argon.

Claim 15 (currently amended): The method in accordance with claim 7, wherein the carbon containing gas is selected from the group consisting of methane, ethane, and acetylene.

Claim 16 (currently amended): A process of providing an optical polarized light, comprising steps of:

providing a bundle of parallel nanotubes; and

via electricity passing along said nanotubes, emitting said optical polarized light by following [[an]] the equation~~as following~~:

$$E_\alpha = -\frac{e}{c}\left(\frac{\beta}{R}\right)_{ret}$$

where E_α is the electric field vector of the light beam, *e* is [[an]] the electron quantity, *c* is [[a]] the capacitance, n is the unit vector of the direction of observation, β is [[an]] the acceleration vector which is along the axial direction of the carbon nanotube, and R is [[a]] the distance between [[an]] the electron and [[an]] the observation point under a condition that [[a]] the subscript "*ret*" means that [[a]] the quantity in the ~~bracket~~ brackets is to be evaluated at the retarded potentials.

Claim 17 (new): An optical polarized light source device comprising:

at least one carbon nanotube bundle; and

electrodes connected with the carbon nanotube bundle, wherein a length of the at least one carbon nanotube bundle is approximately 600 microns.

Claim 18 (new): The optical polarized light source device in accordance with claim 17, wherein each of the electrodes comprises at least one gold wire which is bonded to an inside of a corresponding end of the at least one carbon nanotube bundle.

Claim 19 (new): The optical polarized light source device in accordance with claim 17, wherein the electrodes are made of gold material.

Claim 20 (new): An optical polarized light source device comprising:

at least one carbon nanotube bundle; and

electrodes connected with the carbon nanotube bundle,

wherein the at least one carbon nanotube bundle comprises a plurality of carbon nanotubes that are substantially parallel to one another.